COTTON CHATS

DRAPER COMPANY, HOPEDALE, MASS.

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LOOM SUPPLIES AND REPAIRS

are needed from time to time in all weave rooms. Bobbins, shuttles, pickers, strapping, etc., are in constant use and their service depends first upon the quality of the goods and second upon the care given them.

BOBBINS

On the item of bobbins we have everything needed to insure the best quality both as to material and workmanship. Some twelve years ago finding that we were not properly keeping up with our customers' requirements as to deliveries, we purchased large tracts of land in the best section of New Hampshire to the extent of over 30,000 acres; we included in our purchases several valuable water privileges and on one of them erected a plant for the manufacture of bobbin blanks, including the necessary houses for proper seasoning.

We also built a large addition to our wood working shops in Hopedale and installed an equipment of bobbin finishing machinery. We have added to this equipment from time to time and are prepared to give prompt service

in filling orders and with bobbins that set the standard as to quality.

In oiling our bobbins we use genuine linseed oil which remains in the wood when dry, instead of throwing out on the yarn as is the case with cheap oils. In finishing we use pure gum shellac cut in alcohol instead of the numerous "just as good" preparations that would cost much less.

OUR NORTHROP LOOM SHUTTLES

are also made under our own supervision. We carry a stock of finished shuttles of regular patterns both in our works in Hopedale and in our Southern Supply Department in Atlanta Georgia and can ship usual replacement orders without delay.

LOOM REPAIRS

Northrop looms, like all others, call for more or less repairs. With the wear and tear incident to the various motions in all looms, the wonder is, not that they call for repairs, but that they call for so few. These repairs may be either to replace wear or breakage. The parts that wear out are mostly those subjected to continuous motion, and they are furnished by us at low prices. The parts which break and call for replacement are comparatively few in number.

The breakage in the Northrop loom is generally due to lack of proper adjustments; in such cases if there is an interference between moving parts that can not be provided for by use of springs or other alternatives, we have so designed the groups of pieces that compose the

mechanism that the breakage is obliged to take place in the least expensive piece and the one that will do the least damage to the loom. For instance, in the operation of transferring the bobbin, we have intentionally made the piece called the bobbin support of such proportions that it will be the first to break if a bobbin is caught; this avoids possibility of breakage of the filling battery stand, the breast beam, or the loom side. The apparently weak place in the bobbin support acts as

A SAFETY VALVE

to prevent the breakage of parts much more expensive both in purchase price and in application. An illustration of the false economy of making the bobbin support stronger was recently reported by a mill that bought some loom repairs made of malleable iron and claimed by the maker to be much superior to grey iron, as they would not break. An accident occurred that would have simply snapped the bobbin support as we make it, but in this case the malleable iron held and the breakage was transferred to the loom side, thereby multiplying instead of reducing the cost of repairs. This illustrates only one of the numerous cases that have been carefully considered in our designing department where certain pieces have been intentionally made to break first in emergency.

As to the use of malleable iron in loom parts, we have given this consideration and careful tests have proved it to be very unsatisfactory material for this purpose. It bends easily, throwing devices out of adjustment and castings do not duplicate the pattern as accurately as grey iron. We use grey iron wherever it is suitable and on small pieces when more strength is required we use drop forgings.

The maker of job loom repairs has no interest whatever in the customer beyond the sale of some malleable or other castings, and naturally his only claim for the business is that of cheapness in price and strength in the parts furnished. Do not forget that when these strengthened parts drive breakage into more expensive pieces the so-called cheap repairs are a

LIABILITY RATHER THAN AN ASSET.

We aim to give our supply and repair customers the best possible service both in time required to fill orders and in quality of the work furnished. We have everything to gain by this course, as we are mutually interested with mills operating our machines to have these machines demonstrate their superiority.

In the manufacture of Northrop looms the machine work is handled by special fixtures and jigs so that repairs furnished by Draper Company will duplicate the parts replaced.

Repairs made by the average job foundry and machine shop without this equipment are liable to throw out of adjustment other co-operating parts and the result prove anything but a saving.

DRAPER COMPANY SERVICE IS A VALUABLE ASSET TO DRAPER COMPANY CUSTOMERS